

CLAIMS

1. A nonaqueous electrolyte battery comprising:

5 a positive electrode (1) including a positive
electrode active material layer;

a negative electrode (2) including a negative
electrode active material layer;

a nonaqueous electrolyte (5); and

10 a conducting material, contained in said positive
electrode active material layer and constituted of at
least one non-carbon material selected from a group
consisting of nitrides, carbides and borides, having
particles of at least 0.2 μm and not more than 5 μm in
average particle diameter easily dispersed into said
15 positive electrode active material layer.

2. The nonaqueous electrolyte battery according to claim 1,
wherein a positive electrode active material constituting
said positive electrode active material layer has a
20 layered rock salt structure.

3. The nonaqueous electrolyte battery according to claim 2,
wherein said positive electrode active material having a
layered rock salt structure is constituted of a material
25 containing at least either cobalt or nickel.

4. The nonaqueous electrolyte battery according to any of claims 1 to 3, wherein said conducting material includes a metal nitride.

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5. The nonaqueous electrolyte battery according to claim 4, wherein said metal nitride includes zirconium nitride (ZrN or Zr_3N_2).

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6. The nonaqueous electrolyte battery according to claim 5, wherein said zirconium nitride constituting said conducting material is contained in said positive electrode active material layer with a content of at least 1 % and not more than 20 %.

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7. The nonaqueous electrolyte battery according to any of claims 1 to 3, wherein said conducting material includes a metal carbide.

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8. The nonaqueous electrolyte battery according to claim 7, wherein said metal carbide includes tungsten carbide.

9. The nonaqueous electrolyte battery according to claim 7, wherein said metal carbide includes tantalum carbide.

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10. The nonaqueous electrolyte battery according to claim 7, wherein said metal carbide includes zirconium carbide.

11. The nonaqueous electrolyte battery according to any of
5 claims 1 to 10, further comprising a binder, contained in
said positive electrode active material layer, including
polymer fluoride.

12. The nonaqueous electrolyte battery according to claim
10 11, wherein said polymer fluoride includes polyvinylidene
fluoride.

13. The nonaqueous electrolyte battery according to claim
11 or 12, wherein said positive electrode is cylindrically
15 or angularly formed.

14. A nonaqueous electrolyte battery comprising:
a positive electrode (1) including a positive
electrode active material layer;
20 a negative electrode (2) including a negative
electrode active material layer;
a nonaqueous electrolyte (5); and
a conducting material contained in said positive
electrode active material layer and constituted of a
25 carbide.

15. The nonaqueous electrolyte battery according to claim
14, further comprising a binder, contained in said
positive electrode active material layer, including
5 polymer fluoride.

16. The nonaqueous electrolyte battery according to claim
15, wherein said polymer fluoride includes polyvinylidene
fluoride.

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17. The nonaqueous electrolyte battery according to claim
15 or 16, wherein said positive electrode is cylindrically
or angularly formed.